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## An online credential repository for the Grid: MyProxy

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References Cited: 16

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## Abstract

Grid portals, based on standard Web technologies, are increasingly used to provide user i computational and data grids. However, such Grid portals do not integrate cleanly with exi systems such as the Grid Security Infrastructure (GSI), due to lack of delegation capabiliti mechanisms. We solve this problem using an online credentials repository system, called allows Grid portals to use the GSI to interact with Grid resources in a standard, secure ma the requirements of Grid portals, give an overview of the GSI, and demonstrate how MyPr function together. The architecture and security of the MyProxy system are described in d

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## Author Keywords

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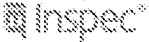
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R Butler, DE Von Welch, I Foster, S Tuecke, J ... - COMPUTER, 2000 - doi.ieeecomputersociety.org

... browser to provide the tag and **pass phrase** to the ... Users can present their GSI **credentials** for authentication ... more complicated, such as the **wrappers** around the ...

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J Novotny, S Tuecke, V Welch - Proceedings of the Tenth International Symposium on High ..., 2001 - doi.ieeecomputersociety.org

... **credentials**. ... at SDSC uses Perl CGI scripts[14] that simply **wrap** the myproxy ... get-delegation program with the appropriate user identity and **pass phrase** passed ...

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[HTML] ► [SSLeay Programmer Reference](#)

TJ Hudson, EA Young - 1997 - di.unito.it

... PEM format of the **key** with a **pass phrase** using DES ... the standard certificate exchange) their Unix **credentials** including their ... eg SunOS 5.x), a **wrapper** to perform ...

Cited by 4 - Related articles - Cached - Web Search

[Assignment of user certificates/private keys in token enabled public key infrastructure system](#)

KW Aull, TC Kerr, WE Freeman, MA Bellmore - US Patent App. 10/027,622, 2001 - Google Patents

... review of data against **credentials** Certificate authority ... effort to determine the **passphrase** required to ... 132, create a certificate, **wrap/encrypt** the certificate ...

Web Search - All 4 versions

[PDF] ► [Stackable File Systems as a Security Tool](#)

E Zadok - Columbia University CS TechReport CUCS-036-99, Dec, 1999 - am-utlis.org

... able **wrapper** file system. ... up file, but using the ownership and group **credentials** of the ... ID as the process that originally received the user's **passphrase**. ...

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C Tschudin - LECTURE NOTES IN COMPUTER SCIENCE, 1999 - Springer

... service may depend on a continuous stream of **credentials**. ... The **pass-phrase** is hashed using the MD5 digest ... **encrypted** and emitted inside the "**wrapper**" code as ...

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[Method and apparatus for a web-based application service model for security management](#)

WB Sweet, JJ Yu - US Patent App. 09/930,029, 2001 - Google Patents

... Permission **Credentials** Information Contained in **Encrypted** Object Transmit **Security** Profile Over the Network 615 Generate Cryptographic Working **Key** Transmit ...

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[PDF] ► [Flexible Key Management with SFS Agents](#)

M Kaminsky - 2000 - pdos.lcs.mit.edu

... The **passphrase** allows the user to safely store an ... user access remote files with different **credentials**—for instance as ... ssu is a **wrapper** around the setuid Unix ...



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J Novotny, S Tuecke, V Welch - Proceedings of the Tenth International Symposium on High ... 2001 - doi.ieeecomputersociety.org

... allow HTTP connections secured with **SSL** encryption (HTTPS ... captured **pass phrase**, the compromised **pass phrase** could be ... to constantly decrypt the portal **key** can be ...

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### A National-Scale Authentication Infrastructure - ►udc.es [PDF]

R Butler, DE Von Welch, I Foster, S Tuecke, J ... - COMPUTER, 2000 - doi.ieeecomputersociety.org

... 68.4, with one distinction: We use **SSL** rather than a ... to provide the tag and **pass phrase** to the ... SSH supports multiple mechanisms—Kerberos, RSA **key** pairs, and ...

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### [HTML] ►SSLeay Programmer Reference

TJ Hudson, EA Young - 1997 - di.unito.it

... format of the **key** with a **pass phrase** using DES ... a **password** and can then return the **key** any number ... pushed STREAMS module that provides transparent **SSL** support for ...

Cited by 4 - Related articles - Cached - Web Search

### The Grid Portal Development Kit - ►cogkits.org [PDF]

J Novotny... - Concurrency and Computation: Practice and Experience, 2002 - doi.wiley.com

... implemented over the Secure Sockets Layer (**SSL**) and is ... One of the **key** difficulties in developing a portal ... enter the same user name and **pass phrase** from their ...

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### [PDF] ►XML **Key** Management Specification (XKMS)

P Hallam-Baker, S Author - W3C Note, March, 2001 - verisign.com

... 26 3.3.4 <ProcessInfo> 27 3.3.5 <**PassPhrase**> 27 ... 28 3.3.9 Faults 29 4 **Key** Registration **Service** Protocol Overview 30 4.1 Linkage to an Underlying PKI 30 ...

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### Assignment of user certificates/private keys in token enabled public **key** infrastructure system

KW Aull, TC Kerr, WE Freeman, MA Bellmore - US Patent App. 10/027,622, 2001 - Google Patents

... and with some effort to determine the **passphrase** required to ... to create a Secure Socket Layer (**SSL**) session between ... the certificate in a public **key** and decrypt ...

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### [PDF] ►Flexible **Key** Management with SFS Agents

M Kaminsky - 2000 - pdos.lcs.mit.edu

... and applies it to the web and **SSL** [FKK96 ... The **passphrase** allows the user to safely store an encrypted ... and certification programs as tools for doing **key** management ...

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### Method and apparatus for a web-based application **service** model for security management

WB Sweet, JJ Yu - US Patent App. 09/930,029, 2001 - Google Patents

... AND APPARATUS FOR A WEB-BASED APPLICATION **SERVICE** MODEL FOR ... values, a file header encrypting **key**, the mem- ber's access permissions **credentials**, and domain ...

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[PS] ► [A use-condition centered approach to authenticated global capabilities: Security architectures for ...](#)

W Johnston, C Larsen - 1996 - [www-itg.lbl.gov](#)

... and the Secure Sockets Layer [SSL] to provide ... **credential** databases (institutional/ group / individual server ... Identity certificates (Public-key Infrastructure) ...

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[book] [Network Security with OpenSSL](#)

J Viega, M Messier, P Chandra - 2002 - [books.google.com](#)

... is kept secret from those without the proper **credentials**, even if ... As a result, most systems that use public **key** cryptography, **SSL** included, use it ...

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R Siebes - EU-IST Project IST-2001-34103 SWAP, Vrije Universiteit ..., 2002 - swap.semanticweb.org

... of a centralized server that could be a bottleneck in CPU or **storage** capacity and ...

WSDL is a **key** part of the effort of the Universal Description, Discovery and ...

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[PDF] ► [Dynamic Parameterization of IPsec](#)

CD Agar, NAVAL POSTGRADUATE SCHOOL MONTEREY CA - 2001 - cisr.nps.edu

... 183 9. Secure Dissemination & **Storage** of QoS ... Association and **Key** Management Protocol

(ISAKMP). ... system unifies the elements of security policy, **credentials**, ...

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R Russell - 2002 - books.google.com

... Can Be Evaded Secret Cryptographic Algorithms Are Not Secure If a **Key** Is Not ... The

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[PDF] ► [REGISTRATION AND AUTHENTICATION PROTOCOL FOR OCEAN:\(OPEN COMPUTATION EXCHANGE AND AUCTIONING NETWORK ...](#)

N Chawla - 2002 - cise.ufl.edu

... 3.1 **Key** Agreement Protocols.....26 ... I have also modified an existing **key** ...

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T Chown, D DeRoure, J Read - 2000 - eprints.ecs.soton.ac.uk

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Jon Read David DeRoure Department of Electronics and Computer ...

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[Current security issues faced by health care establishments and resulting requirements for a secure ...](#)

B Blobel, B Baum-Waidner - Implementing Secure Health Telematics Applications in Europe ..., 2001 -

books.google.com

... to a security problem we mean that **key** escrow or **key** recovery can ... In centralised

information systems logical recording, processing and **storage** of information ...

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[Method and system for transcribing electronic affirmations](#)

CPK Smithies, JM Newman, B Wright - US Patent 6,091,835, 2000 - Google Patents

... such as that the affirming party: i) is in fact the identified party; ii) understands

that by entering affirming data, eg a password, **key**, biometric sample or ...

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C Baert, T Hecht, R Kuron, C Petersen - Convergence, 1996 - citeseerx.ist.psu.edu

... only for data transmission, but also for data **storage**. ... As a result secure **key** handling



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... 35 S/MIME 40 Passwords and **Passphrases** 42 Seeding ... kept secret from those without the proper **credentials**, even if ... only thing that needs to be secret is the **key**. ...

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M Thomas, M Dahan, K Mueller, S Mock, C Mills, R ... - Concurrency and Computation: Practice and Experience, 2002 - svn.globus.org

... system: at login, a valid username and **passphrase** will result ... by SSL using a 56- or 128- bit **key**. ... user has presented the portal with this **credential**, the user ...

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[PDF] [Network security with OpenSSL](#)

P Chandra, M Messier, J Viega - 2002 - infosecurity.org.cn

... secret from those without the proper **credentials**, even if ... to see garbled data that is essentially "**locked**," but they ... thing that needs to be secret is the **key**. ...

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ML Smith - 2000 - citeseerx.ist.psu.edu

... **credential** issued by a trusted authority that individuals or organizations present to prove ... message encrypted with the private **key** can be decrypted with the ...

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A Che - Computer Science Department, Stanford University, 2001 - austinche.name

... 6 Nothing needed to be carried around, except maybe a **pass phrase** in one's head and a smart card in one's **wallet**. ... A **key** or **passphrase** must be obtained ...

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CF Endorf - 2001 - books.google.com

... For example: An account that has been **locked-out** after ... Something You Know — A Password, **Pass Phrase**, or Personal ... Security problems occur, if a **key** is lost or ...

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V Vinge - 2001 - books.google.com

... Namely, dig -ital money, anonymous e-mail, and all of the other issues connected with "strong cryptography" and "public **key** cryp -tography. ...

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V Verisign - 1996 - ncsu.edu

... in two physical locations to protect against attacks on a single **credential** server ... The private **key** itself is stored in encrypted form on the Enterprise Roaming ...

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WB Sweet, JJ Yu - US Patent App. 09/930,029, 2001 - [Google Patents](#)

... Billing & Auditing —950 -945 -955 Data **Storage** Tier 805 ... keon/white papers), allow  
for **secured** transmission of ... are used to form a **Credential Key**, which itself ...

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JC Desplat, J Hardy, M Antonioletti, J Nabrzyski, ... - ENACTS report, January, 2002 - [citeseerx.ist.psu.edu](#)

... data migration, replication, data **storage**, data transfer ...

technologies.....139 III.3.7 **Key** features of ...

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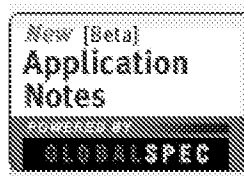



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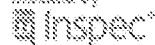
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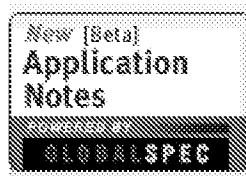



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